

## G06-0039 Seq.list.txt

## SEQUENCE LISTING

<110> Takeda Pharmaceutical Company Limited

<120> Preventing or treating agent for cancer

<130> P04-215PCT

<150> JP 2003-427782

<151> 2003-12-24

<160> 38

<210> 1

<211> 837

<212> PRT

<213> Homo sapiens

<400> 1

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Gly	Ala	Leu	Pro	Pro	Arg	Pro	Pro	Leu							
					20			25						30	
Leu	Leu	Leu	Gln	Pro	Pro	Pro	Pro	Thr	Trp	Ala	Leu	Ser	Pro	Arg	Ile
					35			40				45			
Ser	Leu	Pro	Leu	Gly	Ser	Glu	Glu	Arg	Pro	Phe	Leu	Arg	Phe	Glu	Ala
					50		55			60					
Glu	His	Ile	Ser	Asn	Tyr	Thr	Ala	Leu	Leu	Leu	Ser	Arg	Asp	Gly	Arg
					65		70			75				80	
Thr	Leu	Tyr	Val	Gly	Ala	Arg	Glu	Ala	Leu	Phe	Ala	Leu	Ser	Ser	Asn
					85			90			95				
Leu	Ser	Phe	Leu	Pro	Gly	Gly	Glu	Tyr	Gln	Glu	Leu	Leu	Trp	Gly	Ala
					100			105			110				
Asp	Ala	Glu	Lys	Lys	Gln	Gln	Cys	Ser	Phe	Lys	Gly	Lys	Asp	Pro	Gln
					115			120			125				
Arg	Asp	Cys	Gln	Asn	Tyr	Ile	Lys	Ile	Leu	Leu	Pro	Leu	Ser	Gly	Ser
					130		135			140					
His	Leu	Phe	Thr	Cys	Gly	Thr	Ala	Ala	Phe	Ser	Pro	Met	Cys	Thr	Tyr
					145		150			155			160		
Ile	Asn	Met	Glu	Asn	Phe	Thr	Leu	Ala	Arg	Asp	Glu	Lys	Gly	Asn	Val
					165			170			175				
Leu	Leu	Glu	Asp	Gly	Lys	Gly	Arg	Cys	Pro	Phe	Asp	Pro	Asn	Phe	Lys
					180			185			190				
Ser	Thr	Ala	Leu	Val	Val	Asp	Gly	Glu	Leu	Tyr	Thr	Gly	Thr	Val	Ser
					195			200			205				
Ser	Phe	Gln	Gly	Asn	Asp	Pro	Ala	Ile	Ser	Arg	Ser	Gln	Ser	Leu	Arg
					210		215			220					
Pro	Thr	Lys	Thr	Glu	Ser	Ser	Leu	Asn	Trp	Leu	Gln	Asp	Pro	Ala	Phe
					225		230			235			240		
Val	Ala	Ser	Ala	Tyr	Ile	Pro	Glu	Ser	Leu	Gly	Ser	Leu	Gln	Gly	Asp
					245			250			255				
Asp	Asp	Lys	Ile	Tyr	Phe	Phe	Ser	Glu	Thr	Gly	Gln	Glu	Phe	Glu	
					260			265			270				

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 Asp Glu Gly Gly Glu Arg Val Leu Gln Gln Arg Trp Thr Ser Phe Leu  
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 Lys Ala Gln Leu Leu Cys Ser Arg Pro Asp Asp Gly Phe Pro Phe Asn  
 305 310 315 320  
 Val Leu Gln Asp Val Phe Thr Leu Ser Pro Ser Pro Gln Asp Trp Arg  
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 Asp Thr Leu Phe Tyr Gly Val Phe Thr Ser Gln Trp His Arg Gly Thr  
 340 345 350  
 Thr Glu Gly Ser Ala Val Cys Val Phe Thr Met Lys Asp Val Gln Arg  
 355 360 365  
 Val Phe Ser Gly Leu Tyr Lys Glu Val Asn Arg Glu Thr Gln Gln Met  
 370 375 380  
 Val His Arg Asp Pro Pro Val Pro Thr Pro Arg Pro Gly Ala Cys Ile  
 385 390 395 400  
 Thr Asn Ser Ala Arg Glu Arg Lys Ile Asn Ser Ser Leu Gln Leu Pro  
 405 410 415  
 Asp Arg Val Leu Asn Phe Leu Lys Asp His Phe Leu Met Asp Gly Gln  
 420 425 430  
 Val Arg Ser Arg Met Leu Leu Leu Gln Pro Gln Ala Arg Tyr Gln Arg  
 435 440 445  
 Val Ala Val His Arg Val Pro Gly Leu His His Thr Tyr Asp Val Leu  
 450 455 460  
 Phe Leu Gly Thr Gly Asp Gly Arg Leu His Lys Ala Val Ser Val Gly  
 465 470 475 480  
 Pro Arg Val His Ile Ile Glu Glu Leu Gln Ile Phe Ser Ser Gly Gln  
 485 490 495  
 Pro Val Gln Asn Leu Leu Asp Thr His Arg Gly Leu Leu Tyr Ala  
 500 505 510  
 Ala Ser His Ser Gly Val Val Gln Val Pro Met Ala Asn Cys Ser Leu  
 515 520 525  
 Tyr Arg Ser Cys Gly Asp Cys Leu Leu Ala Arg Asp Pro Tyr Cys Ala  
 530 535 540  
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 Ala Thr Arg Pro Trp Ile Gln Asp Ile Glu Gly Ala Ser Ala Lys Asp  
 565 570 575  
 Leu Cys Ser Ala Ser Ser Val Val Ser Pro Ser Phe Val Pro Thr Gly  
 580 585 590  
 Glu Lys Pro Cys Glu Gln Val Gln Phe Gln Pro Asn Thr Val Asn Thr  
 595 600 605  
 Leu Ala Cys Pro Leu Leu Ser Asn Leu Ala Thr Arg Leu Trp Leu Arg  
 610 615 620  
 Asn Gly Ala Pro Val Asn Ala Ser Ala Ser Cys His Val Leu Pro Thr  
 625 630 635 640  
 Gly Asp Leu Leu Leu Val Gly Thr Gln Gln Leu Gly Glu Phe Gln Cys  
 645 650 655  
 Trp Ser Leu Glu Glu Gly Phe Gln Gln Leu Val Ala Ser Tyr Cys Pro  
 660 665 670  
 Glu Val Val Glu Asp Gly Val Ala Asp Gln Thr Asp Glu Gly Gly Ser  
 675 680 685  
 Val Pro Val Ile Ile Ser Thr Ser Arg Val Ser Ala Pro Ala Gly Gly

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Lys	Ala	Ser	Trp	Gly	Ala	Asp	Arg	Ser	Tyr	Trp	Lys	Glu	Phe	Leu	Val
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Met	Cys	Thr	Leu	Phe	Val	Leu	Ala	Val	Leu	Leu	Pro	Val	Leu	Phe	Leu
					725				730					735	
Leu	Tyr	Arg	His	Arg	Asn	Ser	Met	Lys	Val	Phe	Leu	Lys	Gln	Gly	Glu
					740				745					750	
Cys	Ala	Ser	Val	His	Pro	Lys	Thr	Cys	Pro	Val	Val	Leu	Pro	Pro	Glu
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Thr	Arg	Pro	Leu	Asn	Gly	Leu	Gly	Pro	Pro	Ser	Thr	Pro	Leu	Asp	His
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Arg	Gly	Tyr	Gln	Ser	Leu	Ser	Asp	Ser	Pro	Pro	Gly	Ser	Arg	Val	Phe
					785		790			795					800
Thr	Glu	Ser	Glu	Lys	Arg	Pro	Leu	Ser	Ile	Gln	Asp	Ser	Phe	Val	Glu
					805				810					815	
Val	Ser	Pro	Val	Cys	Pro	Arg	Pro	Arg	Val	Arg	Leu	Gly	Ser	Glu	Ile
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Arg	Asp	Ser	Val	Val											
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<210> 2
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<212> DNA
<213> Homo sapiens
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G06-0039 Seq.list.txt

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gagggcttcc	agcagcttgt	agccagctac	tgcccagagg	tggtgagga	cgggggtggca	2040
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ccagctggtg	gcaaggccag	ctggggtgca	gacaggtcct	actgaaagga	gttcctggtg	2160
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<212> DNA

<213> Homo sapiens

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<210> 4  
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					20				25					30	
Leu	Leu	Leu	Gln	Pro	Pro	Pro	Pro	Thr	Trp	Ala	Leu	Ser	Pro	Arg	Ile
					35				40					45	
Ser	Leu	Pro	Leu	Gly	Ser	Glu	Glu	Arg	Pro	Phe	Leu	Arg	Phe	Glu	Ala
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Glu	His	Ile	Ser	Asn	Tyr	Thr	Ala	Leu	Leu	Leu	Ser	Arg	Asp	Gly	Arg
					65				70					75	80
Thr	Leu	Tyr	Val	Gly	Ala	Arg	Glu	Ala	Leu	Phe	Ala	Leu	Ser	Ser	Asn
					85				90					95	
Leu	Ser	Phe	Leu	Pro	Gly	Gly	Glu	Tyr	Gln	Glu	Leu	Leu	Trp	Gly	Ala
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## G06-0039 Seq.list.txt

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 Arg Asp Cys Gln Asn Tyr Ile Lys Ile Leu Leu Pro Leu Ser Gly Ser  
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 His Leu Phe Thr Cys Gly Thr Ala Ala Phe Ser Pro Met Cys Thr Tyr  
 145 150 155 160  
 Ile Asn Met Glu Asn Phe Thr Leu Ala Arg Asp Glu Lys Gly Asn Val  
 165 170 175  
 Leu Leu Glu Asp Gly Lys Gly Arg Cys Pro Phe Asp Pro Asn Phe Lys  
 180 185 190  
 Ser Thr Ala Leu Val Val Asp Gly Glu Leu Tyr Thr Gly Thr Val Ile  
 195 200 205  
 Ser Phe Gln Gly Asn Asp Pro Ala Ile Ser Arg Ser Gln Ser Leu Arg  
 210 215 220  
 Pro Thr Lys Thr Glu Ser Ser Leu Asn Trp Leu Gln Asp Pro Ala Phe  
 225 230 235 240  
 Val Ala Ser Ala Tyr Ile Pro Glu Ser Leu Gly Ser Leu Gln Gly Asp  
 245 250 255  
 Asp Asp Lys Ile Tyr Phe Phe Ser Glu Thr Gly Gln Glu Phe Glu  
 260 265 270  
 Phe Phe Glu Asn Thr Ile Val Ser Arg Ile Ala Arg Ile Cys Lys Gly  
 275 280 285  
 Asp Glu Gly Gly Glu Arg Val Leu Gln Gln Arg Trp Thr Ser Phe Leu  
 290 295 300  
 Lys Ala Gln Leu Leu Cys Ser Arg Pro Asp Asp Gly Phe Pro Phe Asn  
 305 310 315 320  
 Val Leu Gln Asp Val Phe Thr Leu Ser Pro Ser Pro Gln Asp Trp Arg  
 325 330 335  
 Asp Thr Leu Phe Tyr Gly Val Phe Thr Ser Gln Trp His Arg Gly Thr  
 340 345 350  
 Thr Glu Gly Ser Ala Val Cys Val Phe Thr Met Lys Asp Val Gln Arg  
 355 360 365  
 Val Phe Ser Gly Leu Tyr Lys Glu Val Asn Arg Glu Thr Gln Gln Met  
 370 375 380  
 Val His Arg Asp Pro Pro Val Pro Thr Pro Arg Pro Gly Ala Cys Ile  
 385 390 395 400  
 Thr Asn Ser Ala Arg Glu Arg Lys Ile Asn Ser Ser Leu Gln Leu Pro  
 405 410 415  
 Asp Arg Val Leu Asn Phe Leu Lys Asp His Phe Leu Met Asp Gly Gln  
 420 425 430  
 Val Arg Ser Arg Met Leu Leu Leu Gln Pro Gln Ala Arg Tyr Gln Arg  
 435 440 445  
 Val Ala Val His Arg Val Pro Gly Leu His His Thr Tyr Asp Val Leu  
 450 455 460  
 Phe Leu Gly Thr Gly Asp Gly Arg Leu His Lys Ala Val Ser Val Gly  
 465 470 475 480  
 Pro Arg Val His Ile Ile Glu Glu Leu Gln Ile Phe Ser Ser Gly Gln  
 485 490 495  
 Pro Val Gln Asn Leu Leu Leu Asp Thr His Arg Gly Leu Leu Tyr Ala  
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 Tyr Arg Ser Cys Gly Asp Cys Leu Leu Ala Arg Asp Pro Tyr Cys Ala

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Leu	Cys	Ser	Ala	Ser	Ser	Val	Val	Ser	Pro	Ser	Phe	Val	Pro	Thr	Gly
						580			585					590	
Glu	Lys	Pro	Cys	Glu	Gln	Val	Gln	Phe	Gln	Pro	Asn	Thr	Val	Asn	Thr
					595			600					605		
Leu	Ala	Cys	Pro	Leu	Leu	Ser	Asn	Leu	Ala	Thr	Arg	Leu	Trp	Leu	Arg
					610			615				620			
Asn	Gly	Ala	Pro	Val	Asn	Ala	Ser	Ala	Ser	Cys	His	Val	Leu	Pro	Thr
					625			630			635			640	
Gly	Asp	Leu	Leu	Leu	Val	Gly	Thr	Gln	Gln	Leu	Gly	Glu	Phe	Gln	Cys
						645			650			655			
Trp	Ser	Leu	Glu	Gly	Phe	Gln	Gln	Leu	Val	Ala	Ser	Tyr	Cys	Pro	
					660			665				670			
Glu	Val	Val	Glu	Asp	Gly	Val	Ala	Asp	Gln	Thr	Asp	Glu	Gly	Gly	Ser
					675			680				685			
Val	Pro	Val	Ile	Ile	Ser	Thr	Ser	Arg	Val	Ser	Ala	Pro	Ala	Gly	Gly
					690			695			700				
Lys	Ala	Ser	Trp	Gly	Ala	Asp	Arg	Ser	Tyr	Trp	Lys	Glu	Phe	Leu	Val
					705			710			715			720	
Met	Cys	Thr	Leu	Phe	Val	Leu	Ala	Val	Leu	Leu	Pro	Val	Leu	Phe	Leu
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Leu	Tyr	Arg	His	Arg	Asn	Ser	Met	Lys	Val	Phe	Leu	Lys	Gln	Gly	Glu
						740			745				750		
Cys	Ala	Ser	Val	His	Pro	Lys	Thr	Cys	Pro	Val	Val	Leu	Pro	Pro	Glu
						755			760			765			
Thr	Arg	Pro	Leu	Asn	Gly	Leu	Gly	Pro	Pro	Ser	Thr	Pro	Leu	Asp	His
						770			775			780			
Arg	Gly	Tyr	Gln	Ser	Leu	Ser	Asp	Ser	Pro	Pro	Gly	Ser	Arg	Val	Phe
						785			790			795		800	
Thr	Glu	Ser	Glu	Lys	Arg	Pro	Leu	Ser	Ile	Gln	Asp	Ser	Phe	Val	Glu
						805				810			815		
Val	Ser	Pro	Val	Cys	Pro	Arg	Pro	Arg	Val	Arg	Leu	Gly	Ser	Glu	Ile
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Arg	Asp	Ser	Val	Val											
				835											

<210> 5

<211> 2511

<212> DNA

<213> Homo sapiens

<400> 5

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acctgggcgc	tcagcccccg	gatcagcctg	cctctgggct	ctgaagagcg	gccattcctc	180
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accctgtacg	tgggtgctcg	agaggccctc	tttgcactca	gtagcaacct	cagttcctg	300
ccaggcgggg	agtaccagga	gctgctttgg	ggtgcagacg	cagagaagaa	acagcagtgc	360
agcttcaagg	gcaaggaccc	acagcgcgac	tgtcaaaaact	acatcaagat	cctcctgccc	420

G06-0039 Seq.list.txt

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G06-0039 Seq.list.txt

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## G06-0039 Seq.list.txt

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 Leu Leu Leu Gln Pro Pro Pro Thr Trp Ala Leu Ser Pro Arg Ile  
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 Glu His Ile Ser Asn Tyr Thr Ala Leu Leu Ser Arg Asp Gly Arg  
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 Thr Leu Tyr Val Gly Ala Arg Glu Ala Leu Phe Ala Leu Ser Ser Asn  
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 Leu Ser Phe Leu Pro Gly Gly Glu Tyr Gln Glu Leu Leu Trp Gly Ala  
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 Asp Ala Glu Lys Lys Gln Gln Cys Ser Phe Lys Gly Lys Asp Pro Gln  
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 Val Ala Ser Ala Tyr Ile Pro Glu Ser Leu Gly Ser Leu Gln Gly Asp  
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 Asp Glu Gly Gly Glu Arg Val Leu Gln Gln Arg Trp Thr Ser Phe Leu  
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## G06-0039 Seq.list.txt

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420	425	430
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G06-0039 Seq.list.txt

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G06-0039 Seq.list.txt

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## G06-0039 Seq.list.txt

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## G06-0039 Seq.list.txt

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 690 695 700  
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 Arg Gly Tyr Gln Ser Leu Ser Asp Ser Pro Pro Gly Ser Arg Val Phe  
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 Thr Glu Ser Glu Lys Arg Pro Leu Ser Ile Gln Asp Ser Phe Val Glu  
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G06-0039 Seq.list.txt

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G06-0039 Seq.list.txt

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<223> Primer

<400> 19  
aattgaattc atgctgcgca ccgcgatg 28

<210> 20  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 20  
aagctctaga caccacagag tcacggatct 30

<210> 21  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 21  
aagctctaga tcacaccaca gagtcacgga 30

<210> 22  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 22  
Asn Ser Ala Arg Glu Arg Lys Ile Asn Ser Ser Cys  
5 10

<210> 23  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 23  
Ser Val Val Ser Pro Ser Phe Val Pro Thr Gly Glu Lys Pro Cys  
5 10 15

<210> 24  
<211> 15

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<212> PRT

<213> Homo sapiens

<400> 24

Pro Leu Asp His Arg Gly Tyr Gln Ser Leu Ser Asp Ser Pro Cys  
5 10 15

<210> 25

<211> 14

<212> PRT

<213> Homo sapiens

<400> 25

Ser Arg Val Phe Thr Glu Ser Glu Lys Arg Pro Leu Ser Cys  
5 10

<210> 26

<211> 2135

<212> PRT

<213> Homo sapiens

<400> 26

Met Pro Ala Leu Gly Pro Ala Leu Leu Gln Ala Leu Trp Ala Gly Trp  
5 10 15

Val Leu Thr Leu Gln Pro Leu Pro Pro Thr Ala Phe Thr Pro Asn Gly  
20 25 30

Thr Tyr Leu Gln His Leu Ala Arg Asp Pro Thr Ser Gly Thr Leu Tyr  
35 40 45

Leu Gly Ala Thr Asn Phe Leu Phe Gln Leu Ser Pro Gly Leu Gln Leu  
50 55 60

Glu Ala Thr Val Ser Thr Gly Pro Val Leu Asp Ser Arg Asp Cys Leu  
65 70 75 80

Pro Pro Val Met Pro Asp Glu Cys Pro Gln Ala Gln Pro Thr Asn Asn  
85 90 95

Pro Asn Gln Leu Leu Leu Val Ser Pro Gly Ala Leu Val Val Cys Gly  
100 105 110

Ser Val His Gln Gly Val Cys Glu Gln Arg Arg Leu Gly Gln Leu Glu  
115 120 125

Gln Leu Leu Leu Arg Pro Glu Arg Pro Gly Asp Thr Gln Tyr Val Ala  
130 135 140

Ala Asn Asp Pro Ala Val Ser Thr Val Gly Leu Val Ala Gln Gly Leu  
145 150 155 160

Ala Gly Glu Pro Leu Leu Phe Val Gly Arg Gly Tyr Thr Ser Arg Gly  
165 170 175

Val Gly Gly Ile Pro Pro Ile Thr Thr Arg Ala Leu Trp Pro Pro  
180 185 190

Asp Pro Gln Ala Ala Phe Ser Tyr Glu Glu Thr Ala Lys Leu Ala Val  
195 200 205

Gly Arg Leu Ser Glu Tyr Ser His His Phe Val Ser Ala Phe Ala Arg  
210 215 220

Gly Ala Ser Ala Tyr Phe Leu Phe Leu Arg Arg Asp Leu Gln Ala Gln  
225 230 235 240

Ser Arg Ala Phe Arg Ala Tyr Val Ser Arg Val Cys Leu Arg Asp Gln

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	245	250	255
His Tyr Tyr Ser Tyr Val Glu Leu Pro Leu Ala Cys Glu Gly Gly Arg	260	265	270
Tyr Gly Leu Ile Gln Ala Ala Ala Val Ala Thr Ser Arg Glu Val Ala	275	280	285
His Gly Glu Val Leu Phe Ala Ala Phe Ser Ser Ala Ala Pro Pro Thr	290	295	300
Val Gly Arg Pro Pro Ser Ala Ala Ala Gly Ala Ser Gly Ala Ser Ala	305	310	315
Leu Cys Ala Phe Pro Leu Asp Glu Val Asp Arg Leu Ala Asn Arg Thr	325	330	335
Arg Asp Ala Cys Tyr Thr Arg Glu Gly Arg Ala Glu Asp Gly Thr Glu	340	345	350
Val Ala Tyr Ile Glu Tyr Asp Val Asn Ser Asp Cys Ala Gln Leu Pro	355	360	365
Val Asp Thr Leu Asp Ala Tyr Pro Cys Gly Ser Asp His Thr Pro Ser	370	375	380
Pro Met Ala Ser Arg Val Pro Leu Glu Ala Thr Pro Ile Leu Glu Trp	385	390	395
Pro Gly Ile Gln Leu Thr Ala Val Ala Val Thr Met Glu Asp Gly His	405	410	415
Thr Ile Ala Phe Leu Gly Asp Ser Gln Gly Gln Leu His Arg Val Tyr	420	425	430
Leu Gly Pro Gly Ser Asp Gly His Pro Tyr Ser Thr Gln Ser Ile Gln	435	440	445
Gln Gly Ser Ala Val Ser Arg Asp Leu Thr Phe Asp Gly Thr Phe Glu	450	455	460
His Leu Tyr Val Met Thr Gln Ser Thr Leu Leu Lys Val Pro Val Ala	465	470	475
Ser Cys Ala Gln His Leu Asp Cys Ala Ser Cys Leu Ala His Arg Asp	485	490	495
Pro Tyr Cys Gly Trp Cys Val Leu Leu Gly Arg Cys Ser Arg Arg Ser	500	505	510
Glu Cys Ser Arg Gly Gln Gly Pro Glu Gln Trp Leu Trp Ser Phe Gln	515	520	525
Pro Glu Leu Gly Cys Leu Gln Val Ala Ala Met Ser Pro Ala Asn Ile	530	535	540
Ser Arg Glu Glu Thr Arg Glu Val Phe Leu Ser Val Pro Asp Leu Pro	545	550	555
Pro Leu Trp Pro Gly Glu Ser Tyr Ser Cys His Phe Gly Glu His Gln	565	570	575
Ser Pro Ala Leu Leu Thr Gly Ser Gly Val Met Cys Pro Ser Pro Asp	580	585	590
Pro Ser Glu Ala Pro Val Leu Pro Arg Gly Ala Asp Tyr Val Ser Val	595	600	605
Ser Val Glu Leu Arg Phe Gly Ala Val Val Ile Ala Lys Thr Ser Leu	610	615	620
Ser Phe Tyr Asp Cys Val Ala Val Thr Glu Leu Arg Pro Ser Ala Gln	625	630	635
Cys Gln Ala Cys Val Ser Ser Arg Trp Gly Cys Asn Trp Cys Val Trp	645	650	655
Gln His Leu Cys Thr His Lys Ala Ser Cys Asp Ala Gly Pro Met Val	660	665	670

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Ala Ser His Gln Ser Pro Leu Val Ser Pro Asp Pro Pro Ala Arg Gly  
 675 680 685  
 Gly Pro Ser Pro Ser Pro Pro Thr Ala Pro Lys Ala Leu Ala Thr Pro  
 690 695 700  
 Ala Pro Asp Thr Leu Pro Val Glu Pro Gly Ala Pro Ser Thr Ala Thr  
 705 710 715 720  
 Ala Ser Asp Ile Ser Pro Gly Ala Ser Pro Ser Leu Leu Ser Pro Trp  
 725 730 735  
 Gly Pro Trp Ala Gly Ser Gly Ser Ile Ser Ser Pro Gly Ser Thr Gly  
 740 745 750  
 Ser Pro Leu His Glu Glu Pro Ser Pro Pro Ser Pro Gln Asn Gly Pro  
 755 760 765  
 Gly Thr Ala Val Pro Ala Pro Thr Asp Phe Arg Pro Ser Ala Thr Pro  
 770 775 780  
 Glu Asp Leu Leu Ala Ser Pro Leu Ser Pro Ser Glu Val Ala Ala Val  
 785 790 795 800  
 Pro Pro Ala Asp Pro Gly Pro Glu Ala Leu His Pro Thr Val Pro Leu  
 805 810 815  
 Asp Leu Pro Pro Ala Thr Val Pro Ala Thr Thr Phe Pro Gly Ala Met  
 820 825 830  
 Gly Ser Val Lys Pro Ala Leu Asp Trp Leu Thr Arg Glu Gly Gly Glu  
 835 840 845  
 Leu Pro Glu Ala Asp Glu Trp Thr Gly Gly Asp Ala Pro Ala Phe Ser  
 850 855 860  
 Thr Ser Thr Leu Leu Ser Gly Asp Gly Asp Ser Ala Glu Leu Glu Gly  
 865 870 875 880  
 Pro Pro Ala Pro Leu Ile Leu Pro Ser Ser Leu Asp Tyr Gln Tyr Asp  
 885 890 895  
 Thr Pro Gly Leu Trp Glu Leu Glu Glu Ala Thr Leu Gly Ala Ser Ser  
 900 905 910  
 Cys Pro Cys Val Glu Ser Val Gln Gly Ser Thr Leu Met Pro Val His  
 915 920 925  
 Val Glu Arg Glu Ile Arg Leu Leu Gly Arg Asn Leu His Leu Phe Gln  
 930 935 940  
 Asp Gly Pro Gly Asp Asn Glu Cys Val Met Glu Leu Glu Gly Leu Glu  
 945 950 955 960  
 Val Val Val Glu Ala Arg Val Glu Cys Glu Pro Pro Pro Asp Thr Gln  
 965 970 975  
 Cys His Val Thr Cys Gln Gln His Gln Leu Ser Tyr Glu Ala Leu Gln  
 980 985 990  
 Pro Glu Leu Arg Val Gly Leu Phe Leu Arg Arg Ala Gly Arg Leu Arg  
 995 1000 1005  
 Val Asp Ser Ala Glu Gly Leu His Val Val Leu Tyr Asp Cys Ser Val  
 1010 1015 1020  
 Gly His Gly Asp Cys Ser Arg Cys Gln Thr Ala Met Pro Gln Tyr Gly  
 1025 1030 1035 1040  
 Cys Val Trp Cys Glu Gly Glu Arg Pro Arg Cys Val Thr Arg Glu Ala  
 1045 1050 1055  
 Cys Gly Glu Ala Glu Ala Val Ala Thr Gln Cys Pro Ala Pro Leu Ile  
 1060 1065 1070  
 His Ser Val Glu Pro Leu Thr Gly Pro Val Asp Gly Gly Thr Arg Val  
 1075 1080 1085  
 Thr Ile Arg Gly Ser Asn Leu Gly Gln His Val Gln Asp Val Leu Gly

## G06-0039 Seq.list.txt

1090	1095	1100	
Met Val Thr Val Ala Gly Val Pro Cys Ala Val Asp Ala Gln Glu Tyr			
1105	1110	1115	1120
Glu Val Ser Ser Ser Leu Val Cys Ile Thr Gly Ala Ser Gly Glu Glu			
1125	1130	1135	
Val Ala Gly Ala Thr Ala Val Glu Val Pro Gly Arg Gly Arg Gly Val			
1140	1145	1150	
Ser Glu His Asp Phe Ala Tyr Gln Asp Pro Lys Val His Ser Ile Phe			
1155	1160	1165	
Pro Ala Arg Gly Pro Arg Ala Gly Gly Thr Arg Leu Thr Leu Asn Gly			
1170	1175	1180	
Ser Lys Leu Leu Thr Gly Arg Leu Glu Asp Ile Arg Val Val Val Gly			
1185	1190	1195	1200
Asp Gln Pro Cys His Leu Leu Pro Glu Gln Gln Ser Glu Gln Leu Arg			
1205	1210	1215	
Cys Glu Thr Ser Pro Arg Pro Thr Pro Ala Thr Leu Pro Val Ala Val			
1220	1225	1230	
Trp Phe Gly Ala Thr Glu Arg Arg Leu Gln Arg Gly Gln Phe Lys Tyr			
1235	1240	1245	
Thr Leu Asp Pro Asn Ile Thr Ser Ala Gly Pro Thr Lys Ser Phe Leu			
1250	1255	1260	
Ser Gly Gly Arg Glu Ile Cys Val Arg Gly Gln Asn Leu Asp Val Val			
1265	1270	1275	1280
Gln Thr Pro Arg Ile Arg Val Thr Val Val Ser Arg Met Leu Gln Pro			
1285	1290	1295	
Ser Gln Gly Leu Gly Arg Arg Arg Val Val Pro Glu Thr Ala Cys			
1300	1305	1310	
Ser Leu Gly Pro Ser Cys Ser Ser Gln Gln Phe Glu Glu Pro Cys His			
1315	1320	1325	
Val Asn Ser Ser Gln Leu Ile Thr Cys Arg Thr Pro Ala Leu Pro Gly			
1330	1335	1340	
Leu Pro Glu Asp Pro Trp Val Arg Val Glu Phe Ile Leu Asp Asn Leu			
1345	1350	1355	1360
Val Phe Asp Phe Ala Thr Leu Asn Pro Thr Pro Phe Ser Tyr Glu Ala			
1365	1370	1375	
Asp Pro Thr Leu Gln Pro Leu Asn Pro Glu Asp Pro Thr Met Pro Phe			
1380	1385	1390	
Arg His Lys Pro Gly Ser Val Phe Ser Val Glu Gly Glu Asn Leu Asp			
1395	1400	1405	
Leu Ala Met Ser Lys Glu Glu Val Val Ala Met Ile Gly Asp Gly Pro			
1410	1415	1420	
Cys Val Val Lys Thr Leu Thr Arg His His Leu Tyr Cys Glu Pro Pro			
1425	1430	1435	1440
Val Glu Gln Pro Leu Pro Arg His His Ala Leu Arg Glu Ala Pro Asp			
1445	1450	1455	
Ser Leu Pro Glu Phe Thr Val Gln Met Gly Asn Leu Arg Phe Ser Leu			
1460	1465	1470	
Gly His Val Gln Tyr Asp Gly Glu Ser Pro Gly Ala Phe Pro Val Ala			
1475	1480	1485	
Ala Gln Val Gly Leu Gly Val Gly Thr Ser Leu Leu Ala Leu Gly Val			
1490	1495	1500	
Ile Ile Ile Val Leu Met Tyr Arg Arg Lys Ser Lys Gln Ala Leu Arg			
1505	1510	1515	1520

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Asp Tyr Lys Lys Val Gln Ile Gln Leu Glu Asn Leu Glu Ser Ser Val  
                   1525                  1530                  1535  
 Arg Asp Arg Cys Lys Lys Glu Phe Thr Asp Leu Met Thr Glu Met Thr  
                   1540                  1545                  1550  
 Asp Leu Thr Ser Asp Leu Leu Gly Ser Gly Ile Pro Phe Leu Asp Tyr  
                   1555                  1560                  1565  
 Lys Val Tyr Ala Glu Arg Ile Phe Phe Pro Gly His Arg Glu Ser Pro  
                   1570                  1575                  1580  
 Leu His Arg Asp Leu Gly Val Pro Glu Ser Arg Arg Pro Thr Val Glu  
                   1585                  1590                  1595                  1600  
 Gln Gly Leu Gly Gln Leu Ser Asn Leu Leu Asn Ser Lys Leu Phe Leu  
                   1605                  1610                  1615  
 Thr Lys Phe Ile His Thr Leu Glu Ser Gln Arg Thr Phe Ser Ala Arg  
                   1620                  1625                  1630  
 Asp Arg Ala Tyr Val Ala Ser Leu Leu Thr Val Ala Leu His Gly Lys  
                   1635                  1640                  1645  
 Leu Glu Tyr Phe Thr Asp Ile Leu Arg Thr Leu Leu Ser Asp Leu Val  
                   1650                  1655                  1660  
 Ala Gln Tyr Val Ala Lys Asn Pro Lys Leu Met Leu Arg Arg Thr Glu  
                   1665                  1670                  1675                  1680  
 Thr Val Val Glu Lys Leu Leu Thr Asn Trp Met Ser Ile Cys Leu Tyr  
                   1685                  1690                  1695  
 Thr Phe Val Arg Asp Ser Val Gly Glu Pro Leu Tyr Met Leu Phe Arg  
                   1700                  1705                  1710  
 Gly Ile Lys His Gln Val Asp Lys Gly Pro Val Asp Ser Val Thr Gly  
                   1715                  1720                  1725  
 Lys Ala Lys Tyr Thr Leu Asn Asp Asn Arg Leu Leu Arg Glu Asp Val  
                   1730                  1735                  1740  
 Glu Tyr Arg Pro Leu Thr Leu Asn Ala Leu Leu Ala Val Gly Pro Gly  
                   1745                  1750                  1755                  1760  
 Ala Gly Glu Ala Gln Gly Val Pro Val Lys Val Leu Asp Cys Asp Thr  
                   1765                  1770                  1775  
 Ile Ser Gln Ala Lys Glu Lys Met Leu Asp Gln Leu Tyr Lys Gly Val  
                   1780                  1785                  1790  
 Pro Leu Thr Gln Arg Pro Asp Pro Arg Thr Leu Asp Val Glu Trp Arg  
                   1795                  1800                  1805  
 Ser Gly Val Ala Gly His Leu Ile Leu Ser Asp Glu Asp Val Thr Ser  
                   1810                  1815                  1820  
 Glu Val Gln Gly Leu Trp Arg Arg Leu Asn Thr Leu Gln His Tyr Lys  
                   1825                  1830                  1835                  1840  
 Val Pro Asp Gly Ala Thr Val Ala Leu Val Pro Cys Leu Thr Lys His  
                   1845                  1850                  1855  
 Val Leu Arg Glu Asn Gln Asp Tyr Val Pro Gly Glu Arg Thr Pro Met  
                   1860                  1865                  1870  
 Leu Glu Asp Val Asp Glu Gly Gly Ile Arg Pro Trp His Leu Val Lys  
                   1875                  1880                  1885  
 Pro Ser Asp Glu Pro Glu Pro Pro Arg Pro Arg Arg Gly Ser Leu Arg  
                   1890                  1895                  1900  
 Gly Gly Glu Arg Glu Arg Ala Lys Ala Ile Pro Glu Ile Tyr Leu Thr  
                   1905                  1910                  1915                  1920  
 Arg Leu Leu Ser Met Lys Gly Thr Leu Gln Lys Phe Val Asp Asp Leu  
                   1925                  1930                  1935  
 Phe Gln Val Ile Leu Ser Thr Ser Arg Pro Val Pro Leu Ala Val Lys

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1940	1945	1950	
Tyr Phe Phe Asp Leu Leu Asp Glu Gln Ala Gln Gln His Gly Ile Ser			
1955	1960	1965	
Asp Gln Asp Thr Ile His Ile Trp Lys Thr Asn Ser Leu Pro Leu Arg			
1970	1975	1980	
Phe Trp Ile Asn Ile Ile Lys Asn Pro Gln Phe Val Phe Asp Val Gln			
1985	1990	1995	2000
Thr Ser Asp Asn Met Asp Ala Val Leu Leu Val Ile Ala Gln Thr Phe			
2005	2010	2015	
Met Asp Ala Cys Thr Leu Ala Asp His Lys Leu Gly Arg Asp Ser Pro			
2020	2025	2030	
Ile Asn Lys Leu Leu Tyr Ala Arg Asp Ile Pro Arg Tyr Lys Arg Met			
2035	2040	2045	
Val Glu Arg Tyr Tyr Ala Asp Ile Arg Gln Thr Val Pro Ala Ser Asp			
2050	2055	2060	
Gln Glu Met Asn Ser Val Leu Ala Glu Leu Ser Trp Asn Tyr Ser Gly			
2065	2070	2075	2080
Asp Leu Gly Ala Arg Val Ala Leu His Glu Leu Tyr Lys Tyr Ile Asn			
2085	2090	2095	
Lys Tyr Tyr Asp Gln Ile Ile Thr Ala Leu Glu Glu Asp Gly Thr Ala			
2100	2105	2110	
Gln Lys Met Gln Leu Gly Tyr Arg Leu Gln Gln Ile Ala Ala Ala Val			
2115	2120	2125	
Glu Asn Lys Val Thr Asp Leu			
2130	2135		

<210> 27

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 27

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28

<210> 28

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 28

ggccggcccg acgcagaaaac ag

22

<210> 29

<211> 29

<212> DNA

<213> Artificial Sequence

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<220>  
<223> Primer

<400> 29  
acatcagccg agaggagacg agggaggtt 29

<210> 30  
<211> 23  
<212> DNA  
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<220>  
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<400> 30  
acggggcggc tggtgctgag aat 23

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<213> Artificial Sequence

<220>  
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<400> 32  
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<210> 33  
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<213> Artificial Sequence

<220>  
<223> Primer

<400> 33  
cgggatccca aatcttgtga cacacctccc 30

<210> 34  
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<212> DNA

## G06-0039 Seq.list.txt

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 34

caagcttca tttacccgga gacagggaga

30

&lt;210&gt; 35

&lt;211&gt; 7308

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 35

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gcggggcagcg	ggcgcagttt	tccgccccctc	ggttccggg	taacagctgc	ggctccacca	120
gaccggggga	gaggccgctg	cgcgcggagc	ccgagcccgg	agcgcggcgc	gcccgcctcg	180
gcgcgcacat	cccgcggggc	ccggccgggt	ggtgactccc	acacgggtca	tgctgttgtc	240
tcctgatcca	gcccggccctg	ccaggtgacc	atgcctgctc	tggggccagc	tcttctccag	300
gctctctggg	ccgggtgggt	cctcaccctc	cagccccttc	caccaactgc	attcactccc	360
aatggcacgt	atctgcagca	cctggcaagg	gaccccaccc	caggcaccct	ctacctgggg	420
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tgtaacttgt	gtgtctggca	gcacctgtgc	accacacaagg	cctcgtgt	tgctgggccc	2280
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